Automated Testing & Monitoring
Improving the quality of services in the Connected Car world

IXPERTA, in collaboration with Škoda Auto, has developed an advanced platform for test automation in the area of connecting Škoda cars with online services (known as MOD or Connected C@R). This platform significantly reduces manual testing and introduces new possibilities for testing new versions of individual applications, services, or their components. It also enables their End-to-End monitoring in productive operation.

Key features of the product or service:

Automated testing of software applications, monitoring of internet service interfaces and their availability, sending notifications to responsible teams via automated ticketing systems (e.g., JIRA, SC3, etc.).

Key features:

- Automated testing of both backend and frontend applications.
  - Frontend = mobile applications (iOS and Android), web applications.
  - Backend = REST API backends operated in the cloud or data center.
- Running test suites and monitoring results in real-time.
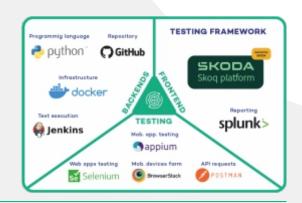- Recording and managing test cases in the Azure DevOps environment of Škoda Auto.
- Automatic sending of results to reporting tools (e.g., Splunk), which make data accessible for management in the form of clear dashboards.
- Utilizing synergies in further testing and problem analysis..

Benefits:

- **SERVICES HEALTH CHECK** Continuously monitor individual components or technological units (e.g., user login through various platforms), correlate data with deployment dates or infrastructure outages.
- **TESTING RELEASE CANDIDATE APP.** Verify the functionality of a new version of an application or component (Android, iOS, Web, or backend) using automated testing in various environments, serving as a basic foundation for deployment approval.
- **IDENTIFICATION PROBLEM COMPONENTS** Easily identifiable causes of issues, identification of non-functional or faulty components, significantly reducing the time required for resolution.
- **COST SAVINGS** Repeated automated tests reduce manual labor and speed up the entire testing process, thereby reducing testing costs while increasing the quality of conducted tests.
- **Multibrand solution (SKODA, VW)** Our solution is multibrand, usable for all brands of the VW AG group.
- **Testing Connectivity backend & components** Automated tests can be performed based on complex scenarios across multiple applications and interfaces, or specifically targeting a particular component or service.

Benefits of the product or service

A list of specific benefits that customers gain by using this product/service.
- ROOT CAUSE ANALYSIS
- REAL TIME MONITORING
- KPI MANAGEMENT REPORT
- Automatic creation of Incident Ticket based on alert from the automated testing / monitorin.